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ABSTRACT OF THE DISCLOSURE

A system, device, and method for bridging network traffic between a first communication interface and a second communication interface uses a pre-computed bridged routing table to enable a bridge to be established quickly. The pre-computed bridged routing table includes the second communication interface as an outgoing interface in each routing table entry having the first communication interface as an outgoing interface. The bridged routing table is pre-computed for the pair of communication interfaces by searching a main routing table for all main routing table entries having the first communication interface as an outgoing interface and creating, for each such main routing table entry, a corresponding bridged routing table entry including all outgoing interfaces from the main routing table entry and additionally including the second (bridged) communication interface as an outgoing interface. Bridged routing tables may be pre-computed for multiple potential communication interface pairs.